

88/10/01

Figure
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Light Chain

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XbaI  TCTAGACCACC ATG GAT TCA CAG GCC CAG GTT CTT ATA TTG
p1      ▶ M  D  S  Q  A  Q  V  L  I  L
      CTG CTG CTA TGG GTA TCT GGC ACC TGT GGG GAC ATT GTG
p11 ▶ L  L  L  W  V  S  G  T  C  G  D  I  V
      CTG ACA CAG TCT CCA GAT TCC CTG GCT GTA AGC TTA GGA
p24 ▶ L  T  Q  S  P  D  S  L  A  V  S  L  G
      GAG AGG GCC ACT ATT AGC TGC AAA TCC AGT CAG AGT CTG
p37 ▶ E  R  A  T  I  S  C  K  S  S  Q  S  L
      CTC AAC AGT AGA ACC CGA GAG AAC TAC TTG GCT TGG TAC
p50 ▶ L  N  S  R  T  R  E  N  Y  L  A  W  Y
      CAG CAG AAA CCA GGG CAG CCT CCT AAA CTG CTG ATC TAC
p63 ▶ Q  Q  K  P  G  Q  P  P  K  L  L  I  Y
      TGG GCA TCC ACT AGG GAA TCT GGG GTC CCT GAT CGC TTC
p76 ▶ W  A  S  T  R  E  S  G  V  P  D  R  F
      AGT GGC AGT GGA TCT GGG ACA GAT TTC ACT CTC ACC ATC
p89 ▶ S  G  S  G  S  G  T  D  F  T  L  T  I
      AGC AGT CTG CAG GCT GAA GAC GTG GCA GTT TAT TAC TGC
p102 ▶ S  S  L  Q  A  E  D  V  A  V  Y  Y  C
      ACG CAA TCT TAT AAT CTT TAC ACG TTC GGA CAG GGG ACC
p115 ▶ T  Q  S  Y  N  L  Y  T  F  G  Q  G  T
      AAG GTG GAA ATA AAA C gtaagtagtcttctcaactctagaaattctaa
p128 ▶ K  V  E  I  K
      XbaI
      actctgagggggtcggtatgacgtggccattctttgcctaaagcattgagtttac
      tgcaagggtcagaaaagcatgcaaagccctcagaatggctgcaaagagctccaac
      aaaacaatttagaactttattaaggaatagggggaagctaggaagaaactcaaa
      acatcaagattttaaatagcttcttgggtctccttgctataattatctgggata
      agcatgctgttttctgtctgtccctaacatgccctgtgattatccgcaaacaac
      acaccaaggggcagaactttgttacttaaacaccatcctgtttgcttcttctct

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VK

(continued on the next page)

Figure
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Light

	cag	GA	ACT	GTG	GCT	GCA	CCA	TCT	GTC	TTC	ATC	TTC	CCG
p133	►	R	T	V	A	A	P	S	V	F	I	F	P
	CCA	TCT	GAT	GAG	CAG	TTG	AAA	TCT	GGA	ACT	GCC	TCT	GTT
p145	►	P	S	D	E	Q	L	K	S	G	T	A	S
	GTG	TGC	CTG	CTG	AAT	AAC	TTC	TAT	CCC	AGA	GAG	GCC	AAA
p158	►	V	C	L	L	N	N	F	Y	P	R	E	A
	GTA	CAG	TGG	AAG	GTG	GAT	AAC	GCC	CTC	CAA	TCG	GGT	AAC
p171	►	V	Q	W	K	V	D	N	A	L	Q	S	G
	TCC	CAG	GAG	AGT	GTC	ACA	GAG	CAG	GAC	AGC	AAG	GAC	AGC
p184	►	S	Q	E	S	V	T	E	Q	D	S	K	D
	ACC	TAC	AGC	CTC	AGC	AGC	ACC	CTG	ACG	CTG	AGC	AAA	GCA
p197	►	T	Y	S	L	S	S	T	L	T	L	S	K
	GAC	TAC	GAG	AAA	CAC	AAA	GTC	TAC	GCC	TGC	GAA	GTC	ACC
p210	►	D	Y	E	K	H	K	V	Y	A	C	E	V
	CAT	CAG	GGC	CTG	AGC	TCG	CCC	GTC	ACA	AAG	AGC	TTC	AAC
p223	►	H	Q	G	L	S	S	P	V	T	K	S	F
	AGG	GGA	GAG	TGT	TAG	agggagaagt	gccccccac	ctgctc	ctcagttc				
p236	►	R	G	E	C	Stop							

CK

cagcctgacccccctcccatccttttggcctctgaccctttttccacaggggac
 ctacccctattgcggtcctccagctcatctttcacctcaccctcctcct
 ccttggttttaattatgctaattgttgaggagaatgaataaaataaagtga
 tctttgcacctgtggtttctctctttctcatttaataattattatctgttg
 ttttaccactactcaattttctcttataagggaactaaatattgtagtcacct
 aaggcgcataaccattttataaaaaatcctcctcattctattttaccctatca
 tctctgcaagacagtcctccctcaaaccacaaagccttctgtcctcacagt
 cccctgggcatggttaggagagacttgcttctgttttccctcctcagca
 agcctcatagtcctttttaagggtgacaggtcttacagtcataatccttt
 gattcaattccctgggaatcaaccaaagcaaatttttcaaaagaagaacct
 gctataaagagaatcattcattgcaacatgatataaaataacaacacaataa
 aagcaattaaataaacaacaatagggaatgtttaagttcatcatggtact
 tagacttaattggaatgtcatgccttatttacatttttaaacaggtactgagg
 gactcctgtctgccaaggccgtattgagtactttccacaacctaatttaat
 ccactatactgtgagattaaaaacattcattaaaatgttgcaaaggttct
 ataaagctgagagacaaatatattctataactcagcaatcccacttctagga
 tcaattc

Figure
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Heavy Chain

XbaI TCTAGACCACC ATG GGT TGG AAC TGT ATC ATC TTC TTT CTG
p1 ▶ M G W N C I I F F L
GTT ACC ACA GCT ACA GGT GTG CAC TCC CAG GTC CAG CTG
p11 ▶ V T T A T G V H S Q V Q L
GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT GGG AGC TCA
p24 ▶ V Q S G A E V K K P G S S
GTG AAG GTG TCC TGC AAA GCT TCC GGC TAC ACA TTC ACT
p37 ▶ V K V S C K A S G Y T F T
GAT TAT GCT ATA CAG TGG GTG AGA CAG GCT CCT GGA CAG
p50 ▶ D Y A I Q W V R Q A P G Q
GGC CTC GAG TGG ATT GGA GTT ATT AAT ATT TAC TAT GAT
p63 ▶ G L E W I G V I N I Y Y D
AAT ACA AAC TAC AAC CAG AAG TTT AAG GGC AAG GCC ACA
p76 ▶ N T N Y N Q K F K G K A T
ATG ACT GTA GAC AAG TCG ACG AGC ACA GCC TAT ATG GAA
p89 ▶ M T V D K S T S T A Y M E
CTT AGT TCT TTG AGA TCT GAG GAT ACG GCC GTT TAT TAC
p102 ▶ L S S L R S E D T A V Y Y
TGT GCA AGA GCG GCC TGG TAT ATG GAC TAC TGG GGT CAA
p115 ▶ C A R A A W Y M D Y W G Q
GGT ACC CTT GTC ACC GTC TCC TCA G gtgagtccttaaaacctc
p128 ▶ G T L V T V S S XbaI
tagagctttctggggcgagccgggctgactttggcctttggggcagggagtg
ggctaaggtgagggcaggtggcgccagccaggtgcacacccaatgcccgtgag
cccagacactggaccctgacctggaccctcgtggatagacaagaaccgagggg
cctctgcgcccctgggcccagctctgtcccacaccgcggtcacatggcaccac
ctctcttgag CC TCC ACC AAG GGC CCA TCG GTC TTC CCC
p136 ▶ A S T K G P S V F P
CTG GCG CCC TGC TCC AGG AGC ACC TCC GAG AGC ACA GCG
p146 ▶ L A P C S R S T S E S T A
GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG
p159 ▶ A L G C L V K D Y F P E P
GTG ACG GTG TCG TGG AAC TCA GGC GCT CTG ACC AGC GGC
p172 ▶ V T V S W N S G A L T S G
GTG CAC ACC TTC CCA GCT GTC CTA CAG TCC TCA GGA CTC
p185 ▶ V H T F P A V L Q S S G L
TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AAC
p198 ▶ Y S L S S V V T V P S S N
TTC GGC ACC CAG ACC TAC ACC TGC AAC GTA GAT CAC AAG
p211 ▶ F G T Q T Y T C N V D H K
CCC AGC AAC ACC AAG GTG GAC AAG ACA GTT G gtgagaggcc
p224 ▶ P S N T K V D K T V
agctcagggagggaggggtgtctgctggaagccaggtcagccctcctgacctg
gaagcaccctggctgtgcagccccagcccagggcagcaaggcaggccccatc
tgtctcctcaccggaggccctctgccccccccactcatgctcagggagaggg

VH

CH1

(continued on the next page)

Figure
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Heavy

	tcttctggctttttccaccaggtccaggcaggcacaggctgggtgcccctacc	
	ccaggcccttcacacacaggggcaggtgcttggctcagacctgccaaaagccat	
	atccgggaggaccctgcccctgacctaaagccgaccccaaaggccaaactgtcca	
	ctccctcagctcggacaccttctctcctcccagatccgagtaactcccaatctt	
	ctctctgcag AG CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC	
p234	▶ E R K C C V E C P P C	H
	CCA G gtaagccagcccaggcctcgccctccagctcaaggcgggacaggtgcc	
p245	▶ P	
	ctagagtagcctgcattccagggacaggccccagctgggtgctgacacgtccacc	
	tccatctcttctcag CA CCA CCT GCG GCA GCA CCG TCA GTC	
p246	▶ A P P A A A P S V	
	TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC	
p255	▶ F L F P P K P K D T L M I	
	TCC CGG ACC CCT GAG GTC ACG TGC GTG GTG GTG GAC GTG	
p268	▶ S R T P E V T C V V V D V	
	AGC CAC GAA GAC CCC GAG GTC CAG TTC AAC TGG TAC GTG	
p281	▶ S H E D P E V Q F N W Y V	
	GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCA CGG	
p294	▶ D G V E V H N A K T K P R	CH2
	GAG GAG CAG TTC AAC AGC ACG TTC CGT GTG GTC AGC GTC	
p307	▶ E E Q F N S T F R V V S V	
	CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC GGC AAG GAG	
p320	▶ L T V V H Q D W L N G K E	
	TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA GCC CCC	
p333	▶ Y K C K V S N K G L P A P	
	ATC GAG AAA ACC ATC TCC AAA ACC AAA G gtgggacccgcggggt	
p346	▶ I E K T I S K T K	
	atgaggggccacatggacagaggccggtcgggccaccctctgccttgggagtga	
	cggctgtgccaaacctctgtccctacag GG CAG CCC CGA GAA CCA	
p355	▶ G Q P R E P	
	CAG GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC	
p261	▶ Q V Y T L P P S R E E M T	
	AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC	
p374	▶ K N Q V S L T C L V K G F	
	TAC CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG	
p387	▶ Y P S D I A V E W E S N G	
	CAG CCG GAG AAC AAC TAC AAG ACC ACA CCT CCC ATG CTG	
p400	▶ Q P E N N Y K T T P P M L	CH3
	GAC TCC GAC GGC TCC TTC TTC CTC TAC AGC AAG CTC ACC	
p413	▶ D S D G S F F L Y S K L T	
	GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA	
p426	▶ V D K S R W Q Q G N V F S	
	TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG	
p439	▶ C S V M H E A L H N H Y T	
	CAG AAG AGC CTC TCC CTG TCC CCG GGT AAA TGA GTGAATTC	
p452	▶ Q K S L S L S P G K	EcoRI
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